

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/636174 Confirmation No. 2104
Applicant : Andrew R. Barron et al.
Filed : August 7, 2003 TC/A.U. : 1713
Docket No. : 1789-11001 Examiner : Ling Siu Choi
Customer No.: 23505
Title: Mechanical Shear Based Synthesis of Alumoxane Nanoparticles

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop RCE Date: November 17, 2005
Commissioner for Patents
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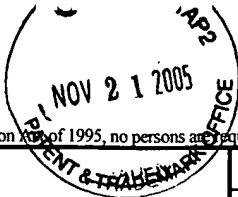
Sir:

In accordance with 37 CFR §1.97, §1.98, applicant is providing herewith copies of the supplementary items listed on the attached U.S. Patent and Trademark Office Form PTO 1449. This information is supplemental to the Information Disclosure Statement and Form PTO 1449 filed in the above-referenced case on March 16, 2005.

The submission of this Supplemental Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

Respectfully submitted,

Marcella D. Watkins
Reg. No. 36,962
CONLEY ROSE, P.C.
P. O. Box 3267
Houston, Texas 77253-3267
(713) 238-8000
ATTORNEY/AGENT FOR APPLICANT



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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/636,174
				Filing Date	August 7, 2003
				First Named Inventor	Andrew R. Barron
				Group Art Unit	1713
				Examiner Name	Ling Siu Choi
Sheet	1	of	7	Attorney Docket Number	1789-11001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-4,496,714	01-29-1985	Murata et al.	
	AB	US-4,676,928	06-30-1987	Leach et al.	
	AC	US-4,952,634	08-28-1990	Grossman	
	AD	US-5,212,261	05-18-1993	Stierman	
	AE	US-5,593,781	01-14-1997	Nass et al.	
	AF	US-5,418,298	05-23-1995	Laine et al.	
	AG	US-4,496,714	01-29-1985	Murata et al.	
	AH	US-4,676,928	06-30-1987	Leach et al.	
	AI	US-6,369,183	04-09-2002	Cook et al.	
	AJ	US-6,322,890	11-27-2001	Barron et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	AL	EPO 0576695	06-26-1992	Aluminum Company of America		

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
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	AM	ZASPALIS et al., <i>Synthesis and Characterization of Primary Alumina, Titania and Binary Membranes</i> , Journal of Materials Science 27 (1992) pp. 1023-1035		
	AN	YOLDAS, <i>Alumina Gels that Form Porous Transparent Al₂O₃</i> , Journal of Materials Science 10 (1975) pp. 1856-1860		
	AO	LOW et al., <i>Synthesis and Properties of Spodumene-modified Mullite Ceramics formed by Sol-gel Processing</i> , Journal of Materials Science Letters 16 (1997) pp. 982-984		
	AP	NIKOLIC et al., <i>Alumina Strengthening by Silica Sol-gel Coating</i> , Thin Solid Films 295 (1997) pp. 101-103		
	AQ	REZGUI et al., <i>Chemistry of Sol-Gel Synthesis of Aluminum Oxides with in Situ Water Formation: Control of the Morphology and Texture</i> , Chem Mater (1994) 6, pp. 2390-2397		
	AR	SERNA et al., <i>Division S-9 ----Sole Mineralogy</i> , Soil Sci. Soc. Am. Journal, Vol. 41 (1997) pp. 1009-1013		
	AS	KINGERY et al., <i>Introduction to Ceramics</i> Wiley-Interscience Publication, 1960		
	AT	LANDRY et al., <i>From Minerals to Materials: Synthesis of Alumoxanes from the Reaction of Boehmite with Carboxylic Acids</i> , Journal of Mater. Chem., 1995, 5(2) pp. 331-341		
	AU	LAO et al., <i>Microporous Inorganic Membranes: Preparation by the Sol-gel Process and Characterization of Unsupported Composite Membranes of Alumina and Polyoxoaluminium Pillard Montmorillonite</i> , Journal of Materials Science Letters 13 (1994) pp. 895-897		
	AV	SIRKAR, <i>New Membrane Materials and Processes for Separation</i> , Published by American Institute of Chemical Engineers, 1988		
	AW	KAREIVA et al., <i>Carboxylate-Substituted Alumoxanes as Processable Precursors to Transition Metal-Aluminum and Lanthanide-Aluminum Mixed-Metal Oxides: Atomic Scale Mixing via a New Transmetalation Reaction</i> , Chemistry of Materials Vol. 8, Number 9, pp. 2331-2340		

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	AX	WILSON et al., <i>The Porosity of Aluminum Oxide Phases Derived from Well-Crystallized Boehmite: Correlated Electron Microscope, Adsorption, and Porosimetry Studies</i> , Journal of Colloid and Interface Science, Vol. 82, No. 2, August 1981 (pp. 507-517)	
	AY	ADKINS, <i>The Selective Activation of Alumina for Decarboxylation or for Dehydration</i> , Selective Activation of Alumina pp. 2175-2186	
	AZ	COURTRIGHT, <i>Engineering Property Limitations of Structural Ceramics and Ceramic Composites Above 1600°C</i> , Ceramic Engineering Science Proc. 12(9-10) pp. 1725-1744 (1991)	
	BA	ELALOUI et al., <i>Influence of the Sol-Gel Processing Method on the Structure and the Porous Texture of Nondoped Aluminas</i> , Journal of Catalysis 166, pp. 340-346 (1997)	
	BB	NOGAMI, <i>Sol-gel Preparation of SiO₂ Glasses Containing Al₂O₃ or ZrO₂</i> , Journal of Non-Crystalline Solids 178 (1994) pp. 320-326	
	BC	OKUBO et al., <i>Preparation of γ-alumina Thin Membrane by Sol-gel Processing and its Characterization by Gas Permeation</i> , Journal of Materials Science 25 (1990) pp. 4822-4827	
	BD	REZGUI et al., <i>Control of Magnesia-alumina Properties by Acetic Acid in Sol-gel Synthesis</i> , Journal of Non-Crystalline Solids 210 (1997) pp. 287-297	
	BE	SHELLEMAN et al., <i>Alpha Alumina Transformation in Seeded Boehmite Gels</i> , Journal of Non-Crystalline Solids 82 (1998) pp. 277-285	
	BF	VRIES et al., <i>Thermal Stability and its Improvement of the Alumina Membrane Top-layers Prepared by Sol-gel Methods</i> , Journal of Materials Science, 26 (1991) pp. 715-720	
	BG	MICHALSKE et al., <i>Strength and Toughness of Continuous-Alumina-Fiber-Reinforced Glass-Matrix Composites</i> , Journal of American Ceramic Society, Vol. 71, No. 9 pp. 725-731 (1988)	
	BH	ANDERSON et al., <i>Titania and Alumina Ceramic Membranes</i> , Journal of Membrane Science, 39 (1988) pp. 243-258	

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	BI	BALTUS, <i>Characterization of the Pore Area Distribution in Porous Membranes Using Transport Measurements</i> , Journal of Membrane Science, 123 (1197) pp. 165-184	
	BJ	FURNEAUX et al., <i>The Formation of Controlled-porosity Membranes from Anodically Oxidized Aluminum</i> , Nature Vol. 337, January 12, 1989 (pp. 147-149)	
	BK	KIM et al., <i>Hydraulic and Surface Characteristics of Membranes with Parallel Cylindrical Pores</i> , Journal of Membrane Science, 123 (1997) pp. 303-314	
	BL	C. LANDRY, et al; <i>Siloxy-Substituted Alumoxanes: Syneheis from Polydialkylsiloxanes and Trimethylaluminium, and Application as Aluminosilicate Precursors</i> ; J. Mater. Chem. 1993; (pp. 597 -- 6020)	
	BM	H. SCHMIDT AND H. KRUG, "Sol-gel-based inorganic-organic composite materials", ACS Symp. Se. 572, No. Inorganic and Organometallic Polymers II, 183-194, (1994)	
	BN	Y. KIMURA, S. TANIMOTO, H. YAMANE, T. KITAO, "Coordination Structure of the Aluminium Atoms of Poly (Methylaloxane), Poly (Isopropoxylaloxane) and Poly [Acyloxy] Aloxane]", Polyhedron, Vol. 9, no. 2/3, 371-376, (1990)	
	BO	HARRY S. KATZ, et al. <i>Handbook of Fillers and Reinforcements for Plastics</i> , Van Nostrand Reinhold Company, 1978 (49 p.)	
	BP	BRYAN ELLIS, <i>Chemistry and Technology of Epoxy Resins</i> , Blackie Academic & Professional, an Imprint of Chapman & Hall, (80 p.)	
	BQ	R. KASEMANN, H. SCHMIDT; <i>Coatings for Mechanical and Chemical Protection based on Organic-Inorganic Sol-Gel Nanocomposites</i> ; New Journal of Chemistry, Vol. 18, No. 10-1994; (pp. 1117-1123)	
	BS	C. VOGELSON, et al; <i>Inorganic-Organic Hybrid and Composite Materials Using Carboxylate-Alumoxanes</i> ; World Ceramics Congress, June 14-19, 1998; (pp. 499 - 506)	
	BT	S. PASYNKIEWICZ, <i>Alumoxanes: Synthesis, Structures, Complexes and Reactions</i> , Polyhedron, Vol. 9, No. 2/3, 1990 (25 p.)	

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	BU	K. NAKAMAE, et al; <i>Studies on Mechanical Properties of Polymer Composites by X-Ray diffraction: 3. Mechanism of Stress Transmission in Particulate Epoxy Composite by X-Ray Diffraction</i> ; Polymer, 1992, vol. 33, No. 13; (pp. 2720-2724)			
	BV	H. JULLIEN, et al. <i>The Microwave Reaction of Phenyl Glycidyl Ether with Aniline on Inorganic Supports: a Model for the Microwave Crosslinking of Epoxy Resins</i> ; Polymer, Vol. 37, No. 15; 1996; (pp. 3319-3330)			
	BW	H. SCHMIDT, et al; <i>Chemistry and Applications of Inorganic-Organic Polymers</i> ; Mat. Res. Soc. -Symp. Proc. Vol. 73; 1986; (pp. 739-750)			
	BX	J. DEWIT, et al; <i>Evaluation of Coatings - A Total System Approach</i> ; Materials Science Forum, vol. 247 (1997) (pp. 69-82)			
	BY	JACQUELINE I. KROSCWITZ, et al., <i>Encyclopedia of Polymer Science and Engineering</i> , Vol. 6, <i>Emulsion Polymerization to Fibers, Manufacture</i> , A Wiley-Interscience Publication, 1985, (66 p.)			
	BZ	K. ANDRIANO, et al; <i>Synthesis of New Polymers with Inorganic Chains of Molecules</i> ; Journal of Polymer science, Vol. XXX, 1958 (pp. 513-524)			
	CA	G. WHITESIDE, et al; Articles; <i>Molecular Self-Assembly and Nanochemistry: A chemical Strategy for the Synthesis of Nanostructures</i> ; Science, Vol. 254, November 1991; (pp. 1312 - 1319)			
	CB	MALCOLM P. STEVENS, <i>Polymer Chemistry, An Introduction</i> , Oxford University Press, 1990 (9 p.)			
	CC	CHRISTOPHER C. LANDRY, et al., <i>From Minerals to Materials: Synthesis of Alumoxanes from the Reaction of Boehmite with Carboxylic Acids</i> , Department of Chemistry, Harvard University, 1995 (11 p.)			
	CD	A. APBLET, et al; <i>Synthesis and Characterization of Triethylsiloxy-Substituted Alumoxanes: Their Structural Relationship to the Minerals Boehmite and Diaspore</i> ; American Chemical Society; 1992; (pp. 167-181)			
	CE	Y. KOIDE, et al; $[Al_5(Bu)_5(\mu_3-O)_2((\mu-OH)_2(\mu-O_2CPh)_2)]$: <i>A Model for the Interaction of Carboxylic Acids with Boehmite</i> ; American Chemical Society 1995; (pp. 4025-4029)			
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	CF	A. MACINNES, et al; <i>Chemical Vapor Deposition of Gallium Sulfide: Phase Control by Molecular Design</i> ; American Chemical society, 1993; (pp. 1344-1351)	
	CG	J. M. G. COWIE, Professor of Chemistry, University of Stirling, <i>Polymers: Chemistry and Physics of Modern Materials</i> , Intertext Books, (13 p.)	
	CH	<i>Thermal Conductivity of Epoxy resin-Aluminium (0 to 50%); and Diavalent Chromium in Alkaline Earth Silicate Systems</i> ; CHAPMAN AND HALL Ltd.; 1977; (pp.1689 - 1691)	
	CI	H. SCHMIDT et al., <i>Inorganic-Organic Hybrid Coatings for Metal and Glass Surfaces</i> , American Chemical Society 1995 (pp. 331-347)	
	CJ	Chemical Abstracts, vol. 111, no. 24, December 11, 1989, abstract no. 218306m, UHLHORN, R.J.R.: High permselectivities of microporous silica modified gamma-alumina membranes: XP000181419	
	CK	CINIBULK, <i>Microstructure and Mechanical Behavior of an Hibonite Interphase in Alumina-Based Composites</i> , Ceramic Eng. & Science Proceedings of the 19 th Annual Conference and Exhibition on Composites, Adv. Ceramics, Materials, and Structures Part B. January 8-12, 1995, Vol. 16 No. 5	
	CL	CINIBULK et al., <i>Textured Magnetoplumbite Fiber-Matrix Interphase Derived from Sol-Gel Fiber Coating</i> , J. AM Ceram. Soc. 79 [5] 1233-1246 (1996)	
	CM	CINIBULK, <i>Magnetoplumbite Compounds as a Fiber Coating in Oxide/Oxide Composites</i> , Ceramic Eng. And Science Proc. 18 th Annual Conference, Vol. 15, No. 15 September – October 1994, pp. 721-728	
	CN	BHAVE et al., <u>Membrane Materials and Processes</u> Removal of Oily Contaminants in Wastewater with Microporous Alumina Membranes, pp. 19-27 (1988)	
	CO	GUIZARD et al., <u>Chemical Processing of Ceramics</u> , <i>Ceramic Membrane Processing</i> , pp. 501-553, (1994)	
	CP	CINIBULK, <i>Thermal Stability of Some Hexaluminates at 1400°C</i> , Journal of Material Science Letters 14 (1995) pp. 651-654	

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	CQ	COLLONGUES et al., <i>Magnetoplumbite-Related Oxides</i> , Annual Rev. Matter. Sci. (1990) 20, pp. 51-82	
	CR	DEFRIEND et al., <i>A Simple Approach to Hierarchical Ceramic Ultrafiltration Membranes</i> , Journal of Membrane Science 212 (2003) pp. 29-38	
	CS	DEFRIEND et al., <i>A Flexible Route to High Strength α-alumina and Aluminate Spheres</i> , Journal of Materials Science 38 (2003) pp. 2673-2678	
	CT	HAY et al., <i>Sol-Gel Coatings on Continuous Ceramic Fibers</i> , Ceramic Eng. Sci. Proc. 11[9-10] pp. 1526-1538 (1990)	

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORM TO THIS ADDRESS. Send To Commissioner For Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

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